

Our Saviors Lutheran Church
1035 Carol Lane Lafayette

*** License Testing 6pm ***

Meeting Begins 7:00pm

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THIS MONTH'S MEETING

SOFTWARE- DEFINED RADIO for DUMMIES !

Presented by Ed Morales, KJ6KYT

2019 MDARC Ham of the Year award recipient Ed Morales is a San Francisco native and has been a resident of Contra Costa County for over 20 years. He is an expert in environmental risk management and works for the Environmental Practice at Willis Towers Watson. Ed is involved with local community emergency response groups in the cities of Martinez and Concord. His volunteer work also includes being a trainer for local CERT classes and participating and running various local amateur radio nets. Ed served as vice president of our club from 2018 to 2020.



*The meeting will also be held virtually, via the Zoom video system. The meeting access ID and password will be distributed via groups.io email announcement. The meeting will also be shown on the club digital amateur television repeater, which is live streamed at: <http://w6cxatv.mdarc.org/> and also live streamed on YouTube on the **Media MDARC** channel.*



Norbert Valles, KF7NXP

**If you hear these new members on the air,
please welcome them to our club.**

*— Jan Kulisek, KM6NFC, Vice President and
Membership Chair*



**When you purchase at Amazon dot com
smile, a portion of your purchase is
donated to our club.**

**Go to:
<https://smile.amazon.com/ch/23-7072059>**

**ALL MEMBERS ARE INVITED TO JOIN
THE FREE CLUB E-MAIL GROUP AT:**

<https://groups.io/g/MDARC>

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Jan Kulisek, KM6NFC
Secretary – Brian Lotter, KM6NGS
Treasurer - Cathi Walton, K2CJW
Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large

Trevor Hall, WA6JAU Cal Vasquez, K6VT
Eric Ferguson, KA6USJ Mike Warren, W6MEW

Membership Chair – Jan Kulisek, KM6NFC
mdarcmembership@mdarc.org

PACIFICON 2021

Chair: Julie Mah, WJ8MAH
Registration: Debbie Deeble, KN6DOM
Treasurer: Jim Siemons, W6LK
Secretary: Jan Kulisek, KM6NFC

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - Jim Siemons, W6LK
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZU
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Public Service - Lisa Anthony, K6PIA
Radio Equipment Lending - Cal Vasquez, K6VT
Refreshments - Elizabeth Styles, KG6HLV
Repeater Trustee W6LGW - Dick Brown, KT6X
Repeater Trustee W6CX - Jim Tittle, K6SOE
Scholarship - Janice Fujii, KG6VTD
Technical Committee - Jim Tittle, K6SOE

***The Carrier* Newsletter**

Editor - Matthew G. Vurek, N4DLA
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Fred Coe, WB6ASU wb6asu@icloud.com

President's Message

August 2021

MDARC Family,

This will be the shortest President's Message on record because I am getting ready to attend a one-week family reunion on the Oregon Coast.

We have two "Extras" going on now.



The first "Extra" is the seemingly ever-changing pandemic restrictions and guidelines, so the best way to stay in the "know" is to keep checking your local county's website. Please follow those mandates and if you haven't yet been vaccinated, then please do it. Not only for yourself, but also for those around you...friends, family, and the stranger met along the path.

Contra Costa is website link is here ----- <https://www.coronavirus.cchealth.org/health-orders>

The second "Extra" is that by the time you read this, MDARC's Amateur Extra License Course will be in full swing. Although I am writing this before our first Session, we already have nearly 60 registered students. We will be conducting this Course in-person following the current Covid mandates and also offering a Zoom option.

Accepting donations: Please consider donating to the club.

Donating to MDARC through Amazon Smile is a "painless" and at-no-cost-to-you way to donate. Use this link:

<https://smile.amazon.com/ch/23-7072059>

TIP: Be sure to bookmark the AmazonSmile website so it is conveniently available whenever you place orders with Amazon.

Check out even more ways to donate from MDARC's webpage.

<http://www.mdarc.org/resources/donate-to-mdarc>



Club Meeting: Friday, 08/20/21. This will be our return to an in-person meeting and will again be at Our Savior Lutheran Church in Lafayette. We will be providing a Zoom option, but please realize that this will not be as in-your-screen face as you may have been used to. We've done some dry runs and have had some in-the-fox-hole experiences.

Unlike in the "old days", when the meeting started at 7:30PM, our meeting will start at 7:00, but of course the doors to the Main Hall are open earlier for meeting and chatting.

Larry KI6LNB and VEs will be providing license testing starting at 6:00PM.

***"The greatest motivational act one person can do for another is to listen."* Roy E. Moody**

73, Larry Bradley KK6QPE 08/03/21

The Case of the Water-Cooled HF Yagi Antenna

By Matthew G. Vurek, N4DLA



Several months ago, it became apparent that the traps on my Cushcraft A3S triband (14 MHz, 21 MHz and 28 MHz) yagi beam antenna needed to be replaced (see photo at left of same antenna type owned by W6IWI). The antenna was installed new on the roof of my garage/radio shack in 1989. To replace the traps, I removed the antenna elements and carried them down to the driveway to do the work.

When I loosened the u-bolt on the reflector and tried to slide it off but the boom's plastic end cap got in the way. So, I pulled the end cap off...and water, lots of it, began flowing out of the boom! It made a large puddle on the flat garage roof. Strangely, I had earlier removed the end cap from the director side of the boom but nothing flowed out. I guess the "sag" in the boom allowed water to collect on one side for 32 plus years until I removed the cap. Fortunately, there are no electrical connections inside the boom so the water did not impact the antenna's performance. Even though I have never used more than 100 watts into this antenna, I guess it never "overheated" due to its previously unknown cooling system!

FCC REVISES CITIZEN'S BAND RADIO SERVICE RULES TO PERMIT FM MODE

On July 15, 2021, as part of the proceedings in WT Docket 10-119, the Federal Communications Commission announced frequency modulation (FM) was now "permitted as an optional modulation scheme for all existing 40 CB Radio Service channels (with AM remaining mandatory)." The Commission added, "Dual modulation would improve the user experience since FM provides benefits for some types of communications," although the "benefits" were not specified. "The addition of FM as a permitted mode will not result in additional interference because users who hear unintelligible audio on a particular channel can simply select another channel or switch modes," wrote the Commission. "Continuing to mandate AM capability while permitting dual modulation will provide benefits to CB radio users who will have an additional modulation option, while maintaining the basic character of the service. The addition of FM as a permitted mode will not result in additional interference because users who hear unintelligible audio on a particular channel can simply select another channel or switch modes."

Cobra Electronics, USA originally petitioned the FCC to permit FM operations in the Citizen's Band Radio Service, which are allocated 40 channelized frequencies from 26.965 MHz to 27.405 MHz. The FCC initially rejected their petition, concluding that "such a change would expand or substantially change the character of the service" and the alternative modulation techniques would be incompatible with the existing equipment base." Undaunted, Cobra filed a "Petition for Reconsideration" in 2017. In it, Cobra argued that a dual modulation approach (requiring CB radio transceivers sold with FM capability to also function on AM) has been used successfully in other countries for many years. Cobra and others claimed that an FM option will benefit the CB radio user in that it will provide better quality and clarity of communications. No commenter opposed Cobra's petition. The FCC set a peak deviation limit of ± 2 KHz due to the 10 KHz channel spacing and 8 KHz occupied bandwidth maximum in the CB Radio Service. Ironically, when 11 meters was an amateur radio band from 1946 to 1958, it was the only HF band where narrow band FM voice was permitted. FM is currently permitted above 29.0 MHz in the HF 10 meter band.

(Source: <https://docs.fcc.gov/public/attachments/DOC-374114A1.pdf>)

Parachute Mobile

Mission 39

AUGUST 21, 2021

Updates made on the W6CX repeater,
147.060+100, Mount Diablo

2 meter QSOs on 146.430MHz
simplex

20 meter QSOs
14.250 MHz

EchoLink: W6BSD-L
AllStar: 40490

APRS
AF6IM & KC6TYD

Streaming video:
Website to be
announced later

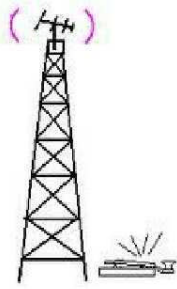
We have no control of the plane or weather. The event is subject to
delays or cancellation. Check our website or Facebook for updates.

www.parachutemobile.org

Make a contact (QSO) with a skydiver and receive a one of the kind QSL card! We will probably not have our usual “parachute mobile net control” so instead we will be making periodic updates on mission day on the W6CX FM repeater on 147.06+ (100 hz pl). For those stations who cannot reach the W6CX repeater, we will be posting updates on our webpage www.parachutemobile.org and our Facebook page.

Listen for us on 146.430 MHz FM simplex and 14.250 MHz USB.

QSOs are recorded but sometimes we miss weak stations. For this reason, if you make a QSO, please e-mail us at skydivingham@gmail.com with the skydiver's name, your callsign, the time and the frequency used for contact.



Fifteenth Annual Sacramento Valley Hamfest



Saturday, Sept 18, 2021
0700 to 1200 Hours



Presented by Western Placer Amateur Radio Club

65 McBean Park Dr. (Hwy. 193) Lincoln CA



Bandstand Parking Lot
License Exam Sessions



Drawing Prizes



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\$10 per space-Approximately 9' x 12'



Bring your own tables

COVID Restrictions May Apply



Hamfest Info at WWW.WPARC.US

Talk-in Frequency
147.300 (+) 67 Hz



Please Support Our Sponsors

PACIFICONSM 2021



Special Appearances
by Bob Heil

All Day Friday
Antenna Seminar

Saturday Breakfast
with Gordon West

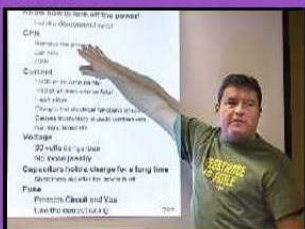
Scout JOTA-JOTI &
Merit Badge Class



Latest
Ham Radio
Equipment for Sale

Ham License Testing

One Day Technician
& General License
Prep Classes



ARRL PACIFIC DIVISION HAM RADIO CONVENTION

Pacificon is back!!

Produced by the Mt. Diablo Amateur Radio Club

October 15, 16 & 17, 2021
San Ramon Marriott
2600 Bishop Drive
San Ramon, California 94583

**GENERAL ADMISSION:
\$25 IN ADVANCE - FOR ALL 3 DAYS!**

*Tickets at the door will cost \$30; 17 years old & under are free;
College Students with valid student ID (25 & under): \$5*

*** Some events have additional cost ***

If you need hotel accommodations
either call Marriott Hotel Reservations at
925-867-9200 by Sept 22, 2021 (per availability)
to ask for the Special Pacificon rate of \$149/night,
or reserve your room on-line at www.pacificon.org

Go to the Pacificon Website for
Events - Schedules - Registration
WWW.PACIFICON.ORG

*** Events are subject to change – check website ***

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Outstanding
Technical Forums

Sunday Swap Meet

Kit Building

Sunday
Ham Radio 101 & 201

Gordon West's
Ham Instructor Academy



Saturday Banquet
with Keynote Speaker
Kristen McIntyre

Sunday Digital
Academy

Get-On-The-Air
Special Events Station



MDARC Board of Directors Meeting June 7, 2021

Held at Zoom online

1. Call to Order: The meeting was called to order at 7:00 pm by Larry Bradley KK6QPE after it was determined that there was a quorum for conducting Club business.

2. Roll Call: Attendees via Zoom screen shot:

Officers: Larry Bradley KK6QPE, President; Jan Kulisek KM6NFC, Vice President; Brian Lotter KM6NGS, Secretary; Cathi Walton K2CJW, Treasurer; Ron Bunch W4FEK, Emergency Coordinator; Mike Warren W6MEW, Director at Large; Trevor Hall WA6JAU, Director at Large; Eric Ferguson KA6USJ, Director at Large; Cal Vasquez, K6VT, Director at Large. Committee Chairs/Coordinator: Mike Patterson N6JGA; Jim Tittle K6SOE; Larry Loomer KI6LNB; Dick Wade WM6G. Guests: Dave Billeci WA6UHA; Greg Estep KE6VTA; Keith Howard KN6ETI; Mary Solon KD6MKS; Mark McAlister KN6IPD; (Jerry) Jaroslav Rosicky KB6T; Terry Buxton KK6KGX; Robert Blank KI6MGK.

3. Approval of Minutes from Last Meeting: The minutes of the May 3, 2021 meeting were approved without objection. Brian KM6NGS stated that the approval relates to Version 3 of the minutes. Mike Warren W6MEW asked if a correction to the April 5 Minutes had been made and if it needs to be published. It was agreed that just the correction statement will be published.

4. Adopt Tonight's Agenda: The agenda for this meeting was approved.

5. Officer reports:

- a. President Larry Bradley KK6QPE – Nothing to report
- b. Vice-President Jan KM6NFC stated that he does not currently have an approved bio for Jim Moen K6JM, our June speaker, but that it will be available on the website.
- c. Secretary Brian KM6NGS said that anything stated in the meeting has to be recorded as stated and asked attendees to make corrections during the meeting, not after the meeting, to avoid multiple versions of the minutes.
- d. Treasurer Cathi K2CJW presented a summary of the April 2021 monthly report. Cathy added that the May income is artificially low due to the late arrival of funds from PayPal. This means that the June income will be higher. The same timing issue caused the Pacificon income to be zero for May. The April 2021 checking account details were then discussed. Trevor WA6JAU asked if we are above or below budget. It was pointed out that the budget is shown, in the right-hand column of the spreadsheet, for each item, and that a negative number means that we are “ahead of the game”. All items are negative so we are below budget in all cases. There were no further questions for Cathi.

6. Emergency Coordinator Report: Ron Bunch W4FEK reported that there had been some minor issue on the repeater, for about 3 minutes, when somebody appeared to working out an issue. Trevor WA6JAU added that the Mount Diablo jammer has been resolved and that this can be seen in QRZ. There were no questions for Ron.

7. Directors at large reports:

Mike Warren W6MEW – no report, Trevor Hall WA6JAU – no report., Eric Ferguson KA6USJ – no report.
Cal Vasquez K6VT – not present.

8. Committee Reports:

- a. Education and Training: John Primus AF6RJ submitted a report before the meeting and Larry KK6QPE sent it out via email.
- b. Pacificon: Julie WJ8MAH was not present but Mike N6JGA reported that Pacificon is definitely “a go” unless the governor tells us differently. Registration for attendees is planned to be open on June 16, we are looking for speakers, vendors are already inquiring about Pacificon, and meetings with the hotel are being planned.
- c. Digital Media: Mike Patterson N6JGA had nothing to report besides what is in the new business section below.
- d. Outreach: Dick Wade WM6G had nothing to report.

f. Technical: Jim Tittle K6SOE reported that he and Trevor WA6JAU had replaced the power supply that was the cause or the recent repeater failure. We still need to update the webpage with the new echolink IRLP instructions. North Peak ATV machine is running well, the packet digipeater is working well. Jim had a discussion with the North Peak site owner regarding Mesh Radio and found that 5G operations for Amateur radio is a no go because the site owner has too many commercial customers up there and cannot afford to raise the noise floor. We still have a license and control operators for the repeater. Mark McAlister KN6IPD asked if it would be prohibitively expensive if we were to become a commercial 5G customer Jim said yes. Jim also stated that, during a recent site survey, they found quite a few active 5G channels up there.

g. Auction: No report.

h. Vehicle (MDARC-1): Larry KK6QPE asked about the status of MDARC 1. Jim Tittle K6SOE replied that the vehicle battery is dead and that he will install a new battery when he picks the van up for Field Day. Larry KK6QPE asked about the situation with the solar charger for the van. Jim explained that the defective vehicle battery was absorbing all of the power from the solar charger and thus leaving none for the other battery. Jim asked if anyone has a pop-up tent that he can use for Field Day. Mike Warren W6MEW replied that he can use the one in the trailer. Larry KK6QPE also offered his pop-up tent.

i. Communications Trailer; Mike Warren W6MEW stated that the trailer is “good to go” for Field Day.

j. Field Day: Larry KI6LNB stated that we have landed at Olympic High School, 2730 Salvio Street, Concord, CA. MDARC-1 and the Communications trailer will be there. Charles Henry’s solar trailer will be there to provide all of the power for Field Day. Charles did a background noise survey and found it to be low during the day and nonexistent during the night. It is thought that the solar panels, over the parking lot that we will be using, are the old type that don’t have inverters at each panel, hence the low noise. Mike W6MEW, showed a plan view of the site and Larry said that the solar trailer will be on the lower left of the picture close to the dumpsters. The Porta Potty will be on the bottom right of the picture under the solar panels. There was further discussion about noise but it was concluded that noise will not be an issue on the site. Various details were discussed including that an email was sent out via groups.io asking for volunteers. Another request for volunteers will be sent out since not all positions have been filled yet. Larry KI6LNB stated that license testing will be held at 1pm on the Saturday of field Day. There were no further questions for Larry.

k. License Testing: Will be held on Saturday June 12 at 9 am

l. Public Service: Klaus has asked to be relieved of the Public Service coordinator duties due to health reasons. Larry KK6QPE said that he has a couple of people in mind and will be contacting people who have been involved with public service in the past and others to find a replacement.

m. Membership: Jan KM6NFC showed the new membership page that he is working on and reported that due to some communication problems, members who had paid their membership fees were counted amongst Past Due members. After the corrections, he is left with 105 Past Due members. The number is still higher than expected so Jan will send out another notice. Larry KK6QPE, asked of the Silent Key number reflects the total since 1947, Jan said “yes”. Jan committed to have login IDs for the board members before the next meeting.

n. Election Committee: a report was not expected. o. Scholarship: a report was not expected.

p. Radio Lending Library: Cal K6VT was not present.

9. Future Meetings:

General Meeting 06/18/21 on Zoom
Board Meeting 07/12/21 on Zoom.

10. Unfinished Business:

10.1 Technical committee report on South Peak to North Peak transfer. On hold

10.2 Status report on revising the Membership database for processing and tracking payments, status, etc. Jan KM6NFC has been working on the documentation and is planning to send out something before the next Board Meeting and also to have login IDs to the portal for board members. The membership directory will be integrated with the membership database and will be ready by the next board meeting.

10.3 Updating MDARC By-Laws for grammatical and content considerations. [on hold until membership can meet in-person]

10.4 Field Day plans were covered in the committee reports above.

10.5 Document retention policy status report. Mike N6JGA stated that Greg Estep KE6VTA came up with recommendations which were passed to the board.

10.6 Membership Directory: when to be published/submitted. Jan KM6NFC showed the landing page of the membership directory by sharing his screen. He proceeded to show the directory page and discussed how it could be printed to word, PDF etc. Larry KK6QPE asked when it will be made available to the members, Jan replied that it could be made available right now. Terry Buxton KK6KGX asked if it can be available in a larger font. Jan stated that he used 12pt. and Larry KK6QPE explained that since it can be exported to MS Word, the font can be changed to whatever the user might choose. Mike N6JGA added that the PDF version can also be enlarged. Dick WM6G asked if the portal will be available to all members. Jan said that each member will have login credentials but that there will be contact management which will limit what they see. Dick explained that he needs access to the latest version now so it was agreed that Jan will send him a Word copy of the existing document. Larry asked that a copy be sent to Terry so that we can get a customer satisfaction indication. Mike N6JGA asked if a cover page can be added so that the printed version will look like the previous versions. Jan said that this can be done. There were no further questions for Jan.

11. New Business:

11.1 Public Service Coordinator position is open. Larry KK6QPE has it on his To-Do list to find a replacement.

11.2 Resumption of in-person General Membership Meeting for 7/16/21. Do we include a Zoom option but with limitations? Larry is targeting July 16 because it is one month after the expected announcement by state and local authorities. Larry KK6QPE proposed that the meeting will be a hybrid of in-person and Zoom where the first portion will look like a regular Zoom meeting and the presentation will only show the speaker and the speaker's slides. Mike W6MEW described a similar kind of meeting held by the Delta Club which went quite well. Larry KK6QPE asked for opinions from the rest of the board. Mike N6JGA recommended that we not do such a meeting until we have tested the site. Since no objections were heard, it was assumed that there is agreement to this option since it will be possible to attend via Zoom. The speaker for July definitely wants to do the presentation in person and plans to do a demonstration of the Nano VNA. He also recommends that people who plan to purchase the Nano VNA, should have it with them during the demonstration. Dick WM6G opined that we should continue to hold hybrid meeting in future so that all members can attend. Larry KK6QPE agreed, but stated that it is a board-by-board issue and that for his tenure we will do it.

11.3 Consideration to hold the remaining 2021 Board Meetings using Zoom without in-person meeting. Larry KK6QPE Larry polled the board members to see if there were any objections to holding board meetings on Zoom until the end of the year. There were no objections. Larry will poll the committee chairs to see if there are any objections.

11.4 MDARC 75th Anniversary; 01/09/2022 [?? Name tag, shirt, hat ??]; how do we commemorate? Larry KK6QPE stated that he will contact some people to get ideas and ask for assistance with this.

11.5 Member and SK assistance for tower removal/installation: looking for references/resource. Larry KK6QPE mentioned that, from time to time, people need assistance with erecting or removing a tower and that he has been asked if MDARC has some kind of referral service. He asked if anybody knows of such resource people, who are properly qualified, because he would like to list them on our website under resources. If we don't want to list them in the website, perhaps we could give such a list to Dick WM6G so that he can help as part of the outreach program.

11.6 Revising our groups.io guidelines. Mike N6JGA mentioned that there is one person who annoys others by his courteous replies to messages, a few times a day, with simple short comments that don't really contribute to the conversation. Mike elaborated to say that the comments are nice and include no wording that could get him excluded for any kind of bad behavior. Mike sought guidance on changing the rules to deal with the problem. One solution that Mike presented was to put him on moderation which means that his messages would have to be approved and could be edited by a moderator before going through. Mike has sent him a private message, but did not get a reply. He has Called Dick a few times but does not recall speaking to Dick. After some discussion, it was concluded that the person is in a difficult situation and just needs to reach out to others. It was decided that we should have compassion for him and not turn him away. Mike will contact the main complainers to explain our response. Mike checked for consensus that no change in the guidelines is needed.

12. Adjournment

Mike W6MEW, seconded by Trevor WA6JAU, proposed a motion to adjourn. All members voted in favor.

Meeting Adjourned at 9:07 pm

Respectfully submitted by

Brian Lotter KM6NGS

Secretary, on June 16, 2021

These meeting minutes were signed digitally due to the digital meeting.

MDARC General Meeting Minutes June 18, 2021

Held at Zoom online

1. Call to Order: The meeting was called to order at 7:00 pm by the MDARC President Larry Bradley KK6QPE

a. The president welcomed all attendees.

b. New member: Bill KI6HCA was acknowledged.

c. Visitor Bill KN6LZZ was acknowledged.

d. He encouraged attendance at the Board Meeting on 7/12/2021 and stated that Board Meetings will be held on Zoom for the remainder of the year.

Due to the absence of any comments, the agenda was deemed to be approved

2. The Pledge of Allegiance will not be made during virtual meetings.

3. Approval of Minutes from the Last Meeting: The minutes of the May meeting were approved.

4. Officer Reports:

a. The President stated that he has periodically been posting COVID notes on the MDARC website and that the notes posted on June 17 are the last of the series. He encouraged members to check the COVID guidelines on the Contra Costa Health Website. Because of the Contra Costa Health guidelines, we are hoping to have our July General meeting as an in-person meeting at Our Saviors Lutheran Church in Lafayette. We are also hoping to have a Zoom option for the meeting.

b. The Vice President was in Prague so there was no report from him

c. The Secretary had no report.

d. The Treasurer read the monthly report for May 2020:

MDARC Checking account income \$378.59, Expenses \$1362.97, Monthly Total -\$984.38. Checking account balance as of the end of May \$41,709.63. Total MDARC Checking/Savings \$70,069.28. Equipment self-insurance \$58,189.08, Pacificon \$14,373.09. Total assets \$142,631.45. There were no questions for Cathy K2CJW

e. The Emergency Coordinator stated that everything has been normal.

(continued on following page)

5. Committee Reports – Standing:

e. Education and Training; John Primus AF6RJ submitted a report which was attached to meeting notice.

f. PACIFICON; Mike N6JGA reported that PACIFICON is definitely a go and that we already have over a hundred reservations although we only opened it up on Wednesday, the hotel is open for reservations as well, we will be fleshing out the website as we get confirmations of speakers and presentations and so forth. Larry KK6QPE asked Mike to clarify the situation with hotel reservations and room options. Mike said that with most hotels, you can request room options when you make your reservation, but now, for some reason, the entire Marriott system has removed the option from their website. If you want to request an accessible room, double beds or something like that, go ahead and make your reservation on the hotel website and then call the hotel front desk to ask them for what you need. Ron advised that you get to the hotel as early as possible for check in to have the best chance of getting what you want.

l. Field Day; Larry Loomer KI6LNB stated that Field Day will be located at Olympic High School, 2730 Salvio Street in Concord. The official time for Contesting will be from 11 am Saturday June 26 to 11 am Sunday June 27. Setup will start on Friday June 25 at 1:30 pm and take down and cleanup will start after 11 am on Sunday. A barbeque is planned for Saturday at 6pm and signup is required so that there will be sufficient food for everybody. Signup needs to be done at Larry's email address which is larry-loomer@yahoo.com and next Monday is the deadline for RSVPs for the barbeque. We have two volunteers for the food service and need two more. There will be a Morse code booth where visitors can write their names in Morse code and send them with a code sending key. Jim Tittle will have the MDARC 1 van available and will be demonstrating our amateur television setup inside the van. We need a greeter to welcome people to the Field Day site, to set up a visitor's log and to provide public information. We will be doing License Testing at 1pm and all VE's on hand will be welcome to oversee the work and/or sign up on the participation sheet that goes to ARRL. Hams will be demonstrating their own equipment, and Pete Harris will have his Buddipole and will be doing an extension of his GOTA class which will start at 9 am on Saturday morning. Jim Tittle will also be doing a GOTA class as soon as Pete finishes his session. Multiple volunteers will be needed to deliver, set up and take down tables and pop-ups, so anytime that you have a free moment we would love to have you come down and help with the setup on Friday afternoon and the take down on Sunday afternoon. There were no questions for Larry KI6LNB.

Larry KK6QPE thanked him for his report. There were no other committee reports. Larry KK6QPE asked if anybody had any questions about any of the items on the Committee Reports list. There were no questions.

6. Unfinished Business: None

7. New Business: None

8. Adjourn Business meeting: The business portion of the meeting was adjourned at 7:20 pm.

Speaker Introduction by Larry KK6QPE: Jim Moen K6JM; DMR and D-Star.

Respectfully submitted by
Brian Lotter KM6NGS
Secretary, on July 11, 2021



HAM RADIO OUTLET®

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FAMILY OWNED AND OPERATED SINCE 1971



FTDX101MP | 200W HF/50MHz Transceiver

- Hybrid SDR Configuration • Unparalleled 70 dB Max. Attenuation VC-Tune • New Generation Scope Display 3DSS • ABI (Active Band Indicator) & MPVD (Multi-Purpose VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



FTDX10 | HF/50MHz 100 W SDR Transceiver

- Narrow Band and Direct Sampling SDR • Down Conversion, 9MHz IF Roofing Filters Produce Excellent Shape Factor • 5" Full-Color Touch Panel w/3D Spectrum Stream • High Speed Auto Antenna Tuner • Microphone Amplifier w/3-Stage Parametric Equalizer • Remote Operation w/optional LAN Unit (SCU-LAN10)



FT-991A | HF/VHF/UHF All Mode Transceiver

Real-time Spectrum Scope with Automatic Scope Control • Multi-color waterfall display • State of the art 32-bit Digital Signal Processing System • 3kHz Roofing Filter for enhanced performance • 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



FTDX101D | HF + 6M Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled - 70dB Maximum Attenuation VC-Tune • 15 Separate (HAM10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



FT-891 | HF+50 MHz All Mode Mobile Transceiver

Rugged Construction in an Ultra Compact Body • Stable 100 Watt Output with Efficient Dual Internal Fans • 32-Bit IF DSP Provides Effective and Optimized QRM Rejection • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control



FTM-300DR | C4FM/FM 144/430MHz Dual Band

- 50W Reliable Output Power • Real Dual Band Operation (V+V, U+U, V+U, U+V) • 2-inch High-Res Full Color TFT Display • Band Scope • Built-in Bluetooth • WiRES-X Portable Digital Mode/Fixed Mode with HRI-200



FT-2980R | Heavy-Duty 80W 2M FM Transceiver

- Massive heatsink guarantees 80 watts of solid RF power • Loud 3 watts of audio output for noisy environments • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



FT-818ND | HF/6M/2M/440 All Mode Portable Xcvr

- Ultra-Compact/Portable • Multi-Color Easy to See LCD • 208 Memory Channels/10 Memory Groups • Built-in Electronic Keyer • Internal Battery Operation Capability • Two Antenna Connectors • Built-in High Stability Oscillator ± 0.5 ppm



FTM-400XD | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band



FT-70DR C4FM/FM 144/430MHz Xcvr

- System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly • Huge 1,105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging

FT-3DR C4FM/FM 144/430 MHz Xcvr

- High Res Full-Color Touch Screen TFT LCD Display • Easy Hands Free Operation w/Built In Bluetooth Unit • Built-In High Precision GPS Antenna • 1200/9600bps APRS Data Communications • Simultaneous C4FM/C4FM Standby • Micro SD Card Slot



FT-65R | 144/430 MHz Transceiver

- Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 5 Watts of Reliable RF Power Within a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Home Channel Access



FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



- **RETAIL LOCATIONS** – Store hours 10:00AM - 5:30PM - Closed Sunday
- **PHONE** – Toll-free phone hours 9:30AM - 5:30PM
- **ONLINE** – WWW.HAMRADIO.COM
- **FAX** – All store locations
- **MAIL** – All store locations

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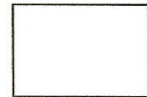
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The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club
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FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.78- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Digital Amateur Television Net 147.060+

Club FM Repeaters

147.060 MHz + / PL 100Hz

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

DATV Internet Stream: <http://w6cxatv.mdarc.org/>

YouTube Channel: Media MDARC

Contra Costa County Emergency Communications Nets Every Thursday

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

August and September 2021 Club Calendar

Friday August 20, 2021 7:00pm - MDARC General Meeting Our Savior's Lutheran Church 1035 Carol Lane, Lafayette
Also available on zoom.us via link sent from groups.io or watch on DATV repeater

Monday September 13, 2021 7:00pm - MDARC Board of Directors Meeting - VIA VIDEO CONFERENCE

MDARC Technical Committee Meeting - **CANCELED**

Friday September 17, 2021 7:00pm - MDARC General Meeting Our Savior's Lutheran Church 1035 Carol Lane, Lafayette